

INTERNATIONAL SEARCH REPORT

International Application No
PCT/CH 03/00466

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C11B9/00 C07D309/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C11B C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

CHEM ABS Data, EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3 681 263 A (BOELEN HARMANNUS ET AL) 1 August 1972 (1972-08-01) abstract; claim 1 ---	1-6
A	DATABASE WPI Derwent Publications Ltd., London, GB; AN 1982-11549E XP002256431 & SU 825 528 A abstract ---	1-6
A	DATABASE WPI Derwent Publications Ltd., London, GB; AN 1986-054437 XP002256432 & SU 1 171 459 A abstract --- -/--	1-6

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

8 October 2003

Date of mailing of the international search report

22/10/2003

Name and mailing address of the ISA
European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Guspanova, J

INTERNATIONAL SEARCH REPORT

International Application No

PCT/CH 03/00466

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>HANAMOTO, TAKESHI ET AL: "Scandium(III) perfluorooctanesulfonate 'Sc(OPf)₃!': a novel catalyst for the hetero Diels-Alder reaction of aldehydes with non-activated dienes"</p> <p>BULLETIN OF THE CHEMICAL SOCIETY OF JAPAN (1997), 70(6), 1421-1426 , XP009018459 abstract Entry 8 in Table 4 on page 1423 page 1424, column 2, paragraph 3</p>	1-6
A	<p>OI, SHUICHI ET AL: "Cationic palladium(II) complex-catalyzed hetero Diels-Alder reaction of dienes with aldehydes"</p> <p>TETRAHEDRON LETTERS (1996), 37(35), 6351-6354 , XP004030687 compound 3i in Table 1 on page 6352 abstract</p>	1-6
A	<p>ROMANOV, N. A. ET AL: "Transcyclization of 4,4,5-trimethyl-1,3-dioxane by carbonyl compounds"</p> <p>J.ORG.CHEM.USSR, vol. 18, no. 2, 1982, pages 399-400, XP009018460 Scheme on page 399 page 399, paragraph 7</p>	1-6

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No.

PCT/CH 03/00466

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 3681263	A	01-08-1972	NL 6802619 A	26-08-1969
			BE 728711 A	20-08-1969
			CH 508717 A	15-06-1971
			DE 1908756 A1	18-09-1969
			ES 363921 A1	01-01-1971
			FR 2002521 A5	17-10-1969
			GB 1215256 A	09-12-1970
			JP 53005383 B	27-02-1978
			SE 357383 B	25-06-1973
SU 825528	A	30-04-1981	SU 825528 A1	30-04-1981
SU 1171459	A	07-08-1985	SU 1057507 A1	30-11-1983
			SU 1171459 A1	07-08-1985